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UNEDITED ROUGH DRAFT TRANSLATION

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A BEARING ALLOY

BY: V. V. Ivanov, K. S. Ignat'yev and V. A. Senatorov

English Pages: 1

SOURCE: Byulleten' Izobreteniy, Patent No. 134086, No. 23, 1960,
pp. 52.

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A BEARING ALLOY

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The familiar alloys used to cast bushings do not assure efficient operation of sleeve bearings which are lubricated with low-concentration sulfuric or phosphoric acid at a specific pressure of 3-4 kg/cm².

The described bearing alloy contains 30% bismuth and 70% lead. Sleeve bearings with bushings made of this alloy, coupled with the bushings on a shaft made of 1Kh18N12 steel, for example, when lubricated with 12% sulfuric acid or 36% phosphoric acid with a specific pressure of 3-4 kg/cm² and increased revolutions (up to 5000 rpm), have high corrosion resistance, good running-in, and assure relatively long operational efficiency.

Object of the Invention

This bearing alloy has the following special feature: in order to assure efficient operation of sleeve bearings which are lubricated with low-concentration sulfuric or phosphoric acid at a specific pressure of 3-4 kg/cm², it consists of 30% bismuth and 70% lead.